

Homework February 1, 2010

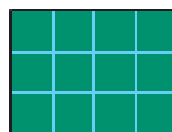
Do all the questions.

- 6.** Copy each rectangle onto grid paper.
Shade the rectangle to find each
product.

a) $\frac{1}{2} \times \frac{3}{4}$



b) $\frac{3}{4} \times \frac{2}{3}$



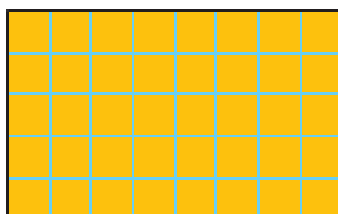
c) $\frac{2}{5} \times \frac{1}{2}$



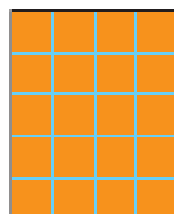
d) $\frac{5}{6} \times \frac{1}{2}$



e) $\frac{3}{5} \times \frac{7}{8}$



f) $\frac{4}{5} \times \frac{3}{4}$



- 7.** Use counters to find each product.
Draw a diagram to record your work.

a) $\frac{3}{4} \times \frac{12}{15}$ b) $\frac{4}{5} \times \frac{10}{18}$ c) $\frac{1}{2} \times \frac{4}{12}$

d) $\frac{1}{4} \times \frac{8}{9}$ e) $\frac{5}{9} \times \frac{18}{24}$ f) $\frac{2}{3} \times \frac{15}{20}$

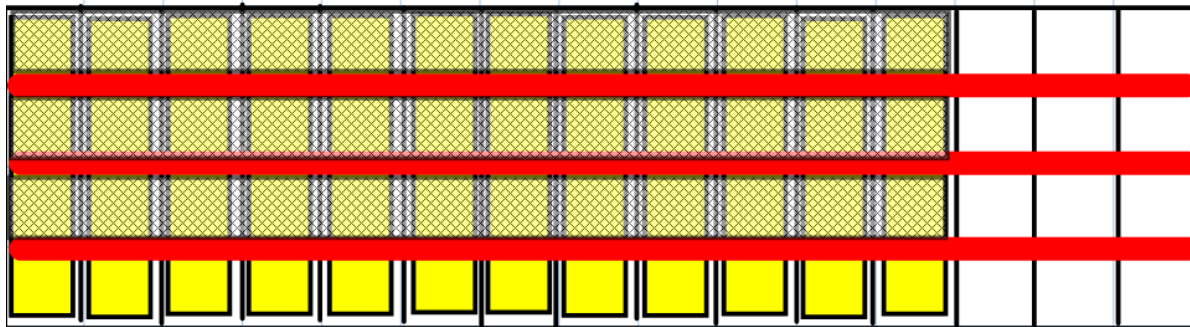
Solution to 7A

Hint : Use the denominators to determine the size of the rectangle you draw. For example in 7a, the denominators are 4 and 15 so start by drawing a rectangle that is 4 squares by 15 squares. Color the second part of the question first. So divide the rectangle into 15 equal parts and color 12 of them. Then divide the colored part into 4 equal parts and color 3 of them. The part of the rectangle that is shaded twice is the product of the two fractions.

$$a) \frac{3}{4} \times \frac{12}{15}$$

Use the denominators to draw the rectangle.

Separate into 15 equal sections and color 12 of them This represents $\frac{12}{15}$



Now you have to divide into four equal segments. You draw your lines the other way. Then colour three of the equal segments

Now count how many squares have both types of shading. This is the denominator of the product (answer). The denominator is how many squares there are in the whole drawing.

36 out of 60 are shaded. $\frac{36}{60} = \frac{3}{5}$ in simplest terms